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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/925,509	08/10/2001		Murat Belge	081513-71	7429
181	7590	07/27/2005		EXAMINER	
		BRIDGE PC	ODOM, CURTIS B		
SUITE 500	1751 PINNACLE DRIVE SUITE 500				PAPER NUMBER
MCLEAN,	VA 221	02-3833	2634		
				DATE MAILED: 07/27/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
-	09/925,509	BELGE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Curtis B. Odom	2634				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•					
1) Responsive to communication(s) filed on 10 A	<u>August 2001</u> .					
	is action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) <u>1-57</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) <u>1-57</u> are subject to restriction and/or	awn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examin	er.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4)					
Notice of Draitsperson's Patent Drawing Review (P10-946) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		atent Application (PTO-152)				

Application/Control Number: 09/925,509

Art Unit: 2634

Page 2

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-4, 29-32, and 57, drawn to processing data from modems, classified in class 375, subclass 222.
 - II. Claims 5, 6, 33, and 34, drawn to determining data based on a programmable gain amplifier setting, classified in class 330, subclass 254.
 - III. Claims 7, 8, 35, and 36, drawn to determining a filter compensated data array based on a frequency domain filter function, classified in class 375, subclass 350.
 - IV. Claims 9, 10, 37, and 38, drawn to time and frequency domain equalization, classified in class 375, subclass 229.
 - V. Claims 11, 12, 25-28, 39, 40 and 53-56 drawn to estimating a signal-to-noise ratio and estimating a data rate based on a signal-to-noise ratio, classified in class 702, subclass 69.
 - VI. Claims 13, 14, 41, and 42, drawn to estimating a loop length and bridged tap estimation based on a channel response, classified in class 375, subclass 340.
 - VII. Claims 15-24 and 43-52, drawn to detecting noise (disturbances) on a communication link, classified in class 375, subclass 346.
- 2. The inventions are distinct, each from the other because of the following reasons:

 Group I refers to processing information received from modems. Group II refers to determining calibrated data based on a programmable gain amplifier setting. Group III refers to determining

Art Unit: 2634

a filter compensated data array based on a frequency domain filter function. Group IV refers to reducing the effects of time and frequency domain equalization. Group V refers to estimating a signal-to-noise ratio and estimating a data rate based on a signal-to-noise ratio. Group VI refers to estimating a loop length and bridged tap estimation based on a channel response. Group VII refers to detecting noise (disturbances) on a communication link.

Because these inventions are distinct for the reasons given above and have acquired a 3. separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Curtis B. Odom whose telephone number is 571-272-3046. The examiner can normally be reached on Monday-Friday, 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/925,509

Art Unit: 2634

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Curtis Odom July 22, 2005

SUPERVISORY PATENT EXAMINE!

Page 4

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